

Title (en)

Apparatus and method for converting a fully-differential class-AB input signal to a rail-to-rail single ended output signal

Title (de)

Vorrichtung und Verfahren für die Umsetzung eines Klasse-AB differentiellen Signals in ein unipolares Ausgangssignal über den ganzen Versorgungsspannungsbereich

Title (fr)

Appareil et méthode pour convertir un signal d'entrée entièrement différentiel de classe AB en un signal de sortie asymétrique couvrant la tension d'alimentation

Publication

EP 1503497 A3 20060426 (EN)

Application

EP 04103548 A 20040723

Priority

US 62815803 A 20030728

Abstract (en)

[origin: EP1503497A2] An apparatus(300) for converting a fully-differential input signal to an output signal which varies between two rail limits (324, 326) and includes: (a) a first buffer (310) receiving one component at a first input (309), presenting a first buffer output signal at a first buffer output (316) and generating a first representative signal; (b) a second buffer (312) receiving the other component at a second input (307), presenting a second buffer output signal at a second buffer output (320) and generating a second representative signal; (c) a control unit (360) coupled with at least one of the buffer outputs (362) and comparing the buffer output signals with a reference signal (368) to generate at least one control signal for reducing drift in the first and second components; and (d) an output unit (304) coupled for combining the representative signals from the buffers to present the single output signal with rail-to-rail variance at an output locus.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [A] US 6163216 A 20001219 - MURRAY KENNETH W [US], et al
- [A] US 2002101286 A1 20020801 - ESCOBAR-BOWSER PRISCILLA [US], et al
- [A] US 6356153 B1 20020312 - IVANOV VADIM V [US], et al
- [A] US 6590452 B1 20030708 - VAN RHIJN ARIE J [US]

Cited by

US8907728B2; WO2011098759A1

Designated contracting state (EPC)

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